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FORM PTO-1449

ATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKM

APPLICATION NO.
10/058,292

APPLICANT
HARTLEY *et al.*

FILING DATE
January 30, 2002

GROUP
1636

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>AAZ</i>	AA8	2003/0077804-A1	04/24/2003	Byrd <i>et al.</i>			04/19/2002
	AB8	2003/0124555-A1	07/03/2003	Brasch <i>et al.</i>			05/21/2002
	AC8	2003/0157662-A1	08/21/2003	Gerard <i>et al.</i>			11/13/2002
	AD8	2003/0157716-A1	08/21/2003	Hartley <i>et al.</i>			11/02/2001
	AE8	2003/0175970-A1	09/18/2003	Hartley <i>et al.</i>			11/21/2002
<i>AAZ</i>	AF8	2003/0186233-A1	10/02/2003	Chesnut <i>et al.</i>			12/07/2001
	AG8						
	AH8						
	AI8						
	AJ8						
	AK8						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AAZ</i>	AR	113	Pending U.S. Non-Provisional Patent Application No. 10/396,696, filed March 26, 2003.				
<i>AAZ</i>	AS	113	Pending U.S. Non-Provisional Patent Application No. 10/454,793, filed June 5, 2003.				
<i>AAZ</i>	AT	113	Pending U.S. Non-Provisional Patent Application No. 10/640,422, filed August 14, 2003.				

EXAMINER

Gerald E. Hupp

DATE CONSIDERED

3-22-04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA7						
	AB7						
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	AE7						
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ASO	AG7	2002/0094574-A1	07/18/2002	Hartley <i>et al.</i>	X	X	05/16/2001
	AH7	2002/0172997-A1	11/21/2002	Hartley <i>et al.</i>			07/19/2001
	AI7	2002/0192819-A1	12/19/2002	Hartley <i>et al.</i>			07/19/2001
	AJ7	2003/0064515-A1	04/03/2003	Hartley <i>et al.</i>			01/30/2002
ASO	AK7	2003/0068799-A1	04/10/2003	Hartley <i>et al.</i>			05/06/2002

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	AP						Yes No

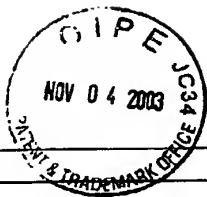
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	112	
ASO	AS	112	Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000.
ASO	AT	112	Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001.

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	114	Murayama, N., <i>et al.</i> , "Evidence for Involvement of <i>Escherichia coli</i> Genes pmbA; csrA and a Previously Unrecognized Gene tldD, in the Control of DNA Gyrase by letD (<i>codB</i>) of Sex Factor F." <i>J. Mol. Biol.</i> 256:483-502, Academic Press Limited (1996).
AS	114	
AT	114	

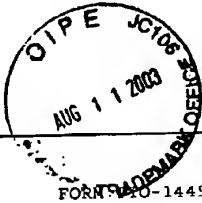
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AA2	AR	72	Bauer, C.E., et al., "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," J. Mol. Biol. 181:187-197 (1985).
	AS	72	Cherepanov, P.P., and Wackernagel, W., "Gene disruption in <i>Escherichia coli</i> : Tc ^r and Km ^r cassettes with the option of Flp-catalyzed excision of the antibiotic-resistance determinant," Gene 158:9-14 (received by library in June 1995).
AA2	AT	72	Collis, C.M., and Hall, R.M., "Expression of Antibiotic Resistance Genes in the Integrated Cassettes of Integrations," Antimicrob. Agents Chemother. 39:155-162 (January 1995).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>ASD</i>	AR	73	Qin, M., et al., "Cre recombinase-mediated site-specific recombination between plant chromosomes," Proc. Natl. Acad. Sci. USA 91:1706-1710 (March 1994).
	AS		
	AT		

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AAO	AA5	4,626,505	12/02/1986	Falco	X	X	02/24/1984
	AB5	4,683,195	07/28/1987	Mullis et al.			02/07/1986
	AC5	4,683,202	07/28/1987	Mullis			10/25/1985
	AD5	4,965,188	10/23/1990	Mullis et al.			06/17/1987
	AE5	5,093,257	03/03/1992	Gray			11/01/1989
	AF5	5,102,797	04/07/1992	Tucker et al.			05/26/1989
	AG5	5,334,375	08/02/1994	Nabi et al.			07/16/1992
	AH5	5,334,575	08/02/1994	Noonan et al.			12/17/1992
	AI5	5,348,886	09/20/1994	Lee et al.			09/04/1992
	AJ5	5,378,618	01/03/1995	Sternberg et al.			09/29/1992
AAO	AK5	5,605,793	02/25/1997	Stemmer			02/17/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL				X	X	Yes
							No
	AM						Yes
							No
AAO	AN5	EP 0 220 009	04/29/1987	Europe ✓			Yes
							No
	AO5	WO 90/11375	10/04/1990	WIDE PCT	X	X	Yes
AAO							No
	AP5	EP 0 427 074	05/15/1991	Europe			Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR			
AAO	AS	73	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (1997).	
AAO	AT	73	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," Mol. Cell. Biol. 17:857-861, American Society for Microbiology (1997).	

EXAMINER <i>R. Lupp</i>	DATE CONSIDERED 3-22-04
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AAZ	AA6	5,650,557	07/22/1997	Hannah et al.			06/07/1995
	AB6	5,728,551	03/17/1998	Devine et al.			03/02/1995
	AC6	5,801,030	09/01/1998	McVey et al.			09/01/1995
	AD6	5,814,300	09/29/1998	Scott et al.			03/03/1995
	AE6	5,837,458	11/17/1998	Minshull et al.			05/20/1996
	AF6	5,929,307	07/27/1999	Hodges et al.			12/20/1996
	AG6	5,962,255	10/05/1999	Griffiths et al.			12/05/1994
	AH6	6,080,576	06/27/2000	Zambrowicz et al.			04/08/1998
	AI6	6,262,341 B1	07/17/2001	Baszczynski et al.			11/17/1998
	AJ6	6,271,436 B1	08/07/2001	Piedrahita et al.			10/10/1997
AAZ	AK6	6,361,972 B1	03/26/2002	Harrington et al.			01/10/2000

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AAZ	AL6	WO 91/09957	07/11/1991	WIPO PCT			Yes No
	AM6	WO 92/15694	09/17/1992	WIPO PCT			Yes No
	AN6	WO 92/22650	12/23/1992	WIPO PCT			Yes No
	AO6	WO 94/03624	02/17/1994	WIPO PCT			Yes No
AAZ	AP6	WO 94/18333	08/18/1994	WIPO PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	74	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences (2000).
	AS	74	Angrand, P.-O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263-3269, Oxford University Press (1998).
AAZ	AT	74	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The <i>trfA</i> Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," <i>J. Mol. Biol.</i> 230:174-185, Academic Press (1993).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA2	AA7	6,365,377 B1	04/02/2002	Patten et al.			03/03/2000
	AB7	2002/0068290 A1	06/06/2002	Yarovinsky			05/31/2001
	AC7	6,410,266 B1	06/25/2002	Harrington et al.			01/07/2000
	AD7	6,410,317 B1	06/25/2002	Farmer			07/14/2000
	AE7	6,436,707 B1	08/20/2002	Zambrowicz et al.			03/25/1999
	AF7	2003/0027337 A1	02/06/2003	Droge et al.			02/25/2002
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AA2	AL7	WO 96/04393	02/15/1996	WIPO			Yes No
	AM7	WO 96/30498	10/03/1996	WIPO			Yes No
	AN7	WO 96/40722	12/19/1996	WIPO			Yes No
	AO7	WO 96/40724	12/19/1996	WIPO			Yes No
	AP7	WO 99/55851	11/04/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	75	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," Bio/Technology 2:1045-1049, Nature Publishing Company (1984).
	AS	75	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (1996).
AA2	AT	75	Barnes, G., and Rine, J., "Regulated expression of endonuclease EcoRI in Saccharomyces cerevisiae: Nuclear entry and biological consequences," Proc. Natl. Acad. Sci. USA 82:1354-1358, National Academy of Sciences (1985).

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	AA							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
APJ	AL8	WO 00/60091	10/12/2000	WIPO PCT	X	X	Yes No
	AM8	WO 01/05961	01/25/2001	WIPO PCT	X	X	Yes No
	AN8	WO 01/07572	02/01/2001	WIPO PCT	X	X	Yes No
	AO8	WO 01/11058	02/15/2001	WIPO PCT	X	X	Yes No
APJ	AP8	WO 01/62892	08/30/2001	WIPO PCT	X	X	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

APJ	AR	76	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Company (1996).
	AS	76	Bernard, P., et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> 234:534-541, Academic Press (1993).
APJ	AT	76	Brent, R., and Ptashne, M., "A bacterial repressor protein or a yeast transcriptional terminator can block upstream activation of a yeast gene," <i>Nature</i> 312:612-615, Macmillan Journals Ltd. (1984).

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AAZ	AL9	WO 02/05294	01/17/2002	WO PT	X	X	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AAZ	AR	77	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).
↓	AS	77	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (1997).
AAZ	AT	77	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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AA2	AR	78	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the Escherichia coli Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," Mol. Cell. Biol. 6:3059-3067, American Society for Microbiology (1986).
	AS	78	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," Infect. Agents Dis. 2:118-131, Raven Press (1993).
AA2	AT	78	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," Gene 192:271-281, Elsevier Science B.V. (1997).

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	AO						Yes No
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AR	79	Choulika, A., et al. "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site." J. Virol. 70:1792-1798, American Society for Microbiology (1996).
AS	79	Chuang, C.-F., and Meyerowitz, E.M., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," Proc. Natl. Acad. Sci. USA 97:4985-4990, National Academy of Sciences (2000).
AT	79	Cormack, B., "Directed Mutagenesis Using the Polymerase Chain Reaction," in Current Protocols in Molecular Biology, Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 8.5.1-8.5.10 (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AP2	AR	80	Cigan, A.M., et al., "Mutational Analysis of the HIS4 Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," Mol. Cell. Biol. 8:2964-2975, American Society for Microbiology (1998).
↓	AS	80	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Ty1 element retrotransposition," Proc. Natl. Acad. Sci. USA 88:936-940, National Academy of Sciences (1991).
AP2	AT	80	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," Nucl. Acids Res. 27:1300-1307, Oxford University Press (1999).

EXAMINER

A. Lippert

DATE CONSIDERED

3-22-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION NO.
10/058,292APPLICANT
Hartley et al.FILING DATE
January 30, 2002GROUP
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	81	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42^{212V}</i> and Dominant Negative <i>cdc42^{211BA}</i> Mutations," <i>J. Biol. Chem.</i> 273:849-858, The American Society for Biochemistry and Molecular Biology (1998).
	AS	81	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in <i>Cyanobacteria</i> ," <i>Appl. Environ. Microbiol.</i> 65:523-528, American Society for Microbiology (1999).
AA2	AT	81	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," <i>Proc. Natl. Acad. Sci. USA</i> 95:1356-1357, National Academy of Sciences (1998).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	82	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat." <i>EMBO J.</i> 4:761-767, IRL Press Limited (1985).
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AAZ	AT	82	Esposito, D., and Scocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	83	Feinbaum, R., "Vectors Derived from Plasmids," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F. M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp.1.5.1-1.5.17 (1998).
AS	83	Flanagan, P.M., and Fennewald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by TN3 Resolvase," <i>J. Mol. Biol.</i> 206:295-304, Academic Press (1989).
AT	83	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (1999).

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	AL						Yes No
	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	84	Francia, M.V., et al., "The Int11 Integron Preferentially Binds Single-Stranded DNA of the attC Site," J. Bacteriol. 181:6844-6849, American Society for Microbiology (1999).
	AS	84	Gateway™ Cloning Technology, Version 1, GIBCO BRL, Life Technologies Instruction Manual, [retrieved from <http://www.lifetech.com/gateway>], pp. 1-60 (1999).
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EXAMINER

B. Lippert

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3-22-04

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	APPLICANT Hartley et al.	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	85	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus Subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).
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AAZ	AT	85	Grindley, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).

EXAMINER <i>H. Lippert</i>	DATE CONSIDERED 3-22-04
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAO	AR	86	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," J. Biol. Chem. 260:12328-12335, The American Society of Biological Chemists (1985).
	AS	86	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the Cin Recombinase have a relaxed topological specificity," EMBO J. 7:3991-3996, IRL Press Limited (1988).
AAJ	AT	86	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," Proc. Natl. Acad. Sci. USA 97:8856-8861, National Academy of Sciences (2000).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	87	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
AS	87	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science Publishers (1984).
AT	87	Hochuli, E., et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent." <i>Bio/Technology</i> 6: 1321-1325, Nature Publishing Company (1988).

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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000H/RWE/BJD/JKM	APPLICATION NO. 10/058,292
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA	AR	88	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," Proc. Natl. Acad. Sci. USA 81:1026-1029, National Academy of Sciences (1984).
↓	AS	88	Iida, S., et al., "A site-specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the C segment." EMBO J. 1:1445-1453, IRL Press Limited (1982).
AA	AT	88	Iino, T., and Kutsukake, K., "Trans-acting Genes of Bacteriophages P1 and Mu Mediate Inversion of a Specific DNA Segment Involved in Flagellar Phase Variation of Salmonella," Cold Spring Harbor Symp. Quant. Biol. 45:11-16, Cold Spring Harbor Laboratory (1981).

EXAMINER <i>A. K. [Signature]</i>	DATE CONSIDERED 3-22-04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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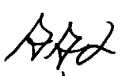
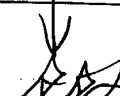
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INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	89	Johnson, R.C., et al., "Isolation of the gene encoding the Hin recombinational enhancer binding protein," <i>Proc. Natl. Acad. Sci. USA</i> 85:3484-3488, National Academy of Sciences (1998).
	AS	89	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the <i>blaA</i> gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).
	AT	89	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (1998).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAJ	AR	90	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioengineer.</i> 59:239-247, John Wiley & Son (1998).
↓	AS	90	Kim, D.W., "Use of the human elongation factor 1a promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).
AAJ	AT	90	Klippel, A., et al., "Isolation and characterization of unusual gin mutants," <i>EMBO J.</i> 7:3983-3989, IRL Press Limited (1988).

EXAMINER

A. Klippel

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FORM PTO-1449	ATTY. DOCKET NO. 0942.285000H/RWE/BJD/JKM	APPLICATION NO. 10/058,292
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	APPLICANT Hartley et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA	AR	91	Koch, C., et al., "Escherichia coli host factor for site-specific DNA inversion: Cloning and characterization of the <i>fis</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> 85:4237-4241, National Academy of Sciences (1988).
↓	AS	91	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (1996).
AA	AT	91	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," <i>Genome Res.</i> 8:666-672, Cold Spring Harbor Laboratory Press (1998).

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 3-22-04
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ATTY. DOCKET NO.
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APPLICATION NO.
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AR	92	Kozak, M., "Comparison of Initiation of Protein Synthesis in Procaryotes, Eucaryotes, and Organelles," Microbiol. Rev. 47:1-45, American Society for Microbiology (1983).
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AT	92	Langeveld, S.A. et al., "Expression of an Escherichia coli phr gene in the yeast Saccharomyces cerevisiae," Mol. Gen. Genet. 199: 396-400, Springer-Verlag (1985).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AA2	AR	93	Leslie, N.R., and Sherratt, D.H., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (April 1995).				
	AS	93	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (July 1995).				
AA2	AT	93	Li, Z.-W., et al. "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells. <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).				

EXAMINER <i>Sherratt</i>	DATE CONSIDERED 3-22-04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION NO.
10/058,292APPLICANT
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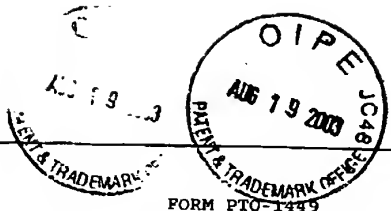
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AR	94	Lu, F., and Churchward, G., "Conjugative Transposition" Tn916 integrase contains two independent DNA binding domains that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548, Oxford University Press (April 1994).
AS	94	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Reviews</i> 63:21-53, American Society for Microbiology (1999).
AT	94	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology (1999).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
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ATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKM

APPLICATION NO.
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	95	Mahillon, J., et al., "Subdivision of the <i>Escherichia coli</i> K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," <i>Gene</i> 223:47-54, Elsevier Science B.V. (1998).
AS	95	Malylnn, B.A., et al., "The <i>scid</i> Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," <i>Cell</i> 54:453-460, Cell Press (1988).
AT	95	Maniatis, T., et al., "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236:1237-1245, American Association for the Advancement of Science (1987).

EXAMINER Shipp J DATE CONSIDERED 3-22-04

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	AL						Yes No
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AR	26	Mendiola, M.W., and de la Cruz, P., "Specificity of insertion of IS91, an insertion sequence present in a-haemolysin plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
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AT	96	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZa</i> for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).

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AR	97	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," EMBO J. 19:5194-5201, Oxford University Press (2000).
AS	97	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," Nucl. Acids Res. 15:6469-6488, IRL Press Limited (1987).
AT	97	Miller, H.I., et al., "int-h: an int Mutation of Phage λ That Enhances Site-Specific Recombination," Cell 20: 721-729, The MIT Press (1980).

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AAO	AR	98	Mizushima, S., and Nagat, S., "pEF-BOS, a powerful mammalian expression vector," Nucl. Acids Res. 18:5322, Oxford University Press (1990).
AAO	AS	98	Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," Genesis 26:99-109, Wiley-Liss (2000).
AAO	AT	98	Nash, H.A., and Robertson, C.A., "Purification and Properties of the Escherichia coli Protein Factor Required for λ Integrative Recombination," J. Biol. Chem. 256:9246-9253, The American Society of Biological Chemists (1981).

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**SECOND SUPPLEMENTAL
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ATTY. DOCKET NO.
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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	99	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (October 1994).
AS	99	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," <i>Appl. Environ. Microbiol.</i> 63:4713-4720, American Society for Microbiology (1997).
AT	99	Okayama, H., and Berg, P., "Bacteriophage Lambda Vector for Transducing a cDNA Clone Library into Mammalian Cells," <i>Mol. Cell. Biol.</i> 5:1136-1142, American Society for Microbiology (1985).

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION NO.
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>ASD</i>	AR	<u>100</u>	Osuna, R., et al., "Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion by not λ excision," <i>EMBO J.</i> 10:1593-1603, Oxford University Press (1991).
<i>ASD</i>	AS	<u>100</u>	Pal, S. K., et al., "Pl Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).
<i>ASD</i>	AT	<u>100</u>	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (1998).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	101	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (2000).
AS	101	Perler, F.B., "InBase, the New England Biolabs Intein Database," <i>Nucl. Acids Res.</i> 27:346-347, Oxford University Press (1999).
AT	101	Persson, M.A.A., "Combinatorial Libraries," <i>Intern. Rev. Immunol.</i> 10:153-63, Harwood Academic Publishers GmbH (1993).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000H/RWE/BJD/JKM	APPLICATION NO. 10/058,292
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAJ	AR	102	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," Mol. Cell. Biol. 15:6593-6600, American Society for Microbiology (December 1995).
	AS	102	Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," Nucl. Acids Res. 26:3445-3446, Oxford University Press (1998).
BAJ	AT	102	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of Escherichia coli W: Engineering a Mobile Aromatic Degradative Cluster," J. Bacteriol. 178:111-120, American Society for Microbiology (1996).

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 3-22-04
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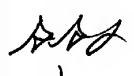



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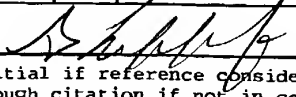
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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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	AR	103	Qin, M., et al., "Site-specific cleavage of chromosomes <i>in vitro</i> through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (June 1995).
	AS	103	Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021, Cell Press (1986).
	AT	103	Ross, W., and Landy, A., "Patterns of λ Int Recognition in the Regions of Strand Exchange," Cell 33:261-272, The MIT Press (1983).

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	AR	<u>104</u>	Sambrook, J., et al., Molecular Cloning: A Laboratory Manual, 2nd ed., Cold Spring Harbor Laboratory Press, New York, NY, pp. 16.6-16.8, (1989).
	AS	<u>104</u>	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press, Inc. (1992).
	AT	<u>104</u>	Sato, T., et al., "The cisa Cistron of Bacillus subtilis Sporulation Gene spoIVC Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172:1092-1098, American Society for Microbiology (1990).

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AA2	AR	105	Sauer, B., et al., "Construction of Isogenic Cell Lines Expressing Human and Rat Angiotensin II AT ₁ Receptors by Cre-Mediated Site-Specific Recombination," <i>Methods: A Companion to Methods in Enzymology</i> 4:143-149, Academic Press (1992).
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AR	106	Schild, D., et al., "Cloning of three human multifunction de novo purine biosynthetic genes by functional complementation of yeast mutations," Proc. Natl. Acad. Sci. USA 87:2916-2920, National Academy of Sciences (1990).
AS	106	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," Microbiol. Mol. Biol. Rev. 62:775-806, American Society for Microbiology (1998).
AT	106	Scott, S.D. and Marples, B., "Comment on the use of the cre/loxP recombinase system for gene therapy vectors," Gene Therapy 7:1706, Macmillan Publishers Ltd. (2000).

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	APPLICANT Hartley et al.	
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	AL						Yes No
	AM						Yes No
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